

## ABSTRACT

### METHODS OF SCREENING PROTEASE INHIBITORS, OF INDUCING MICE SUSCEPTIBLE TO HIV PROTEASE INHIBITOR-INDUCED DYSLIPIDEMIA, AND GENES ASSOCIATED THEREWITH

The present invention relates generally to the side effects caused by retroviral therapies, including protease inhibitors, nucleoside reverse transcriptase inhibitors, and non-nucleosidereverse transcriptase inhibitors. Specifically, the present invention provides methods of screening a protease inhibitor for its capacity to affect symptoms or clinical conditions associated with lipodystrophy or dyslipidemia and related metabolic disorders, such as metabolic syndrome X, obesity, cardiovascular disorders, and impaired glucose tolerance in diabetes, in a patient.